Munitions Executive Summit

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FY11 Munitions Delivered

- Mortar
  - ✓ 60mm – 432,875
  - ✓ 81mm – 494,665
  - ✓ 120mm – 250,606
- Artillery
  - ✓ Artillery Projectiles – 354,496
  - ✓ Artillery Fuzes – 62,500
  - ✓ Energetics
    - 60/81/120mm Mortar Ignition Cartridges - 1,120,655
    - 60/81/120mm Mortar Propelling Charges - 4,899,706
    - 155mm MACS M232A1 – 786,165
- XM982 Excalibur– 581
- XM395 APMI - 970

Approx $682 Million Ammo Delivered

FY12 Munitions Planned Deliveries

- Artillery Rounds
  - ✓ 75mm – 114,075
  - ✓ 105mm – 36,006
  - ✓ 155mm – 250,670
  - ✓ Fuzes – 223,180
- Mortar Rounds
  - ✓ 60mm – 598,675
  - ✓ 81mm – 261,198
  - ✓ 120mm – 280,998
- Precision
  - ✓ XM982 Excalibur – 337 1a-1 rds and 1738 1a-2 rds
  - ✓ XM395 APMI - 4510
- Energetics
  - ✓ Ignition Cartridges – (60, 81,120mm Mortar) 858,928
  - ✓ Mortar Propelling Charges - (60, 81,120mm Mortar) 6,352,358
  - ✓ MACS M232A1 - 757,030

Approx $650 Million Ammo to be Delivered

XM395 Accelerated Precision Mortar Initiative (APMI)

Requirement:

- Required Capability:
  - ✓ GPS Guidance
  - ✓ Accuracy: 10m CEP (T); 5m (O)
  - ✓ Maximum Range: 6.5km or greater
  - ✓ Reliability: .90 by UMR
  - ✓ Compatibility: All U.S. Army 120mm Mortar Systems

Inductive Connection

XM701 Fuse Setter (with LHMBC)

XM395 120mm HE Cartridge

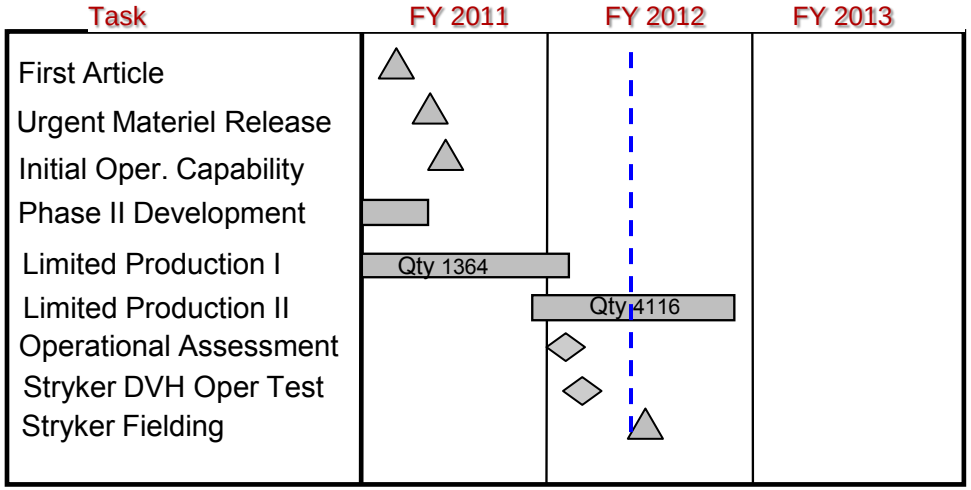
MFCS: Mortar Fire Control System – Dismounted (M150/M151)

- Operational Need Statement (ONS #09-7722) for GPS guided 120mm mortar cartridge: HQDA G-3/5/7 validated on 8 Jan 2009; HQDA G3/5/7 Directed Requirement (16 Oct 2009)
- Revised ONS Quantity: 5,480 rounds; 156 Fuse Setters, validated by AR2B GOSC, 25 Mar 10
- Operational Assessment in theater will determine support for Program of Record (PoR) through Capabilities Development for Rapid Transition (CDRT) process

Description:

APMI is a GPS-guided 120mm mortar munition that will provide maneuver battalion commanders with an organic precision indirect fire capability to neutralize enemy forces in complex terrain difficult to engage with low-angle fire.

Schedule:



Current Status/Schedule:

- Urgent Material Release: 3-4 Mar 2011
- Initial Operational Capability: 14 Apr 2011
- 1,449 rounds delivered to theater
- 8 BCTs and 1 Ranger Bn trained/fielded
- 53 rounds fired in combat
- Completed CONUS training /LFX [4/82 (Nov 11); 1/82 (Dec 11/Jan 12)]
- Operational Assessment completed, TRADOC delivery to HQDA Feb 12
- Completed Stryker DVH APMI Operational Test (OT)/Integration: 2 Feb 2012
- Fielding to Stryker BCT Spring 12

XM1156 Precision Guidance Kit (PGK)

Requirement:

Key Performance Parameters

Net Ready:
- Incorporated into Digital Fire Support Systems: AFATDS; M109A6 (Paladin); M777A2 (LW155); EPIAFS; GPS

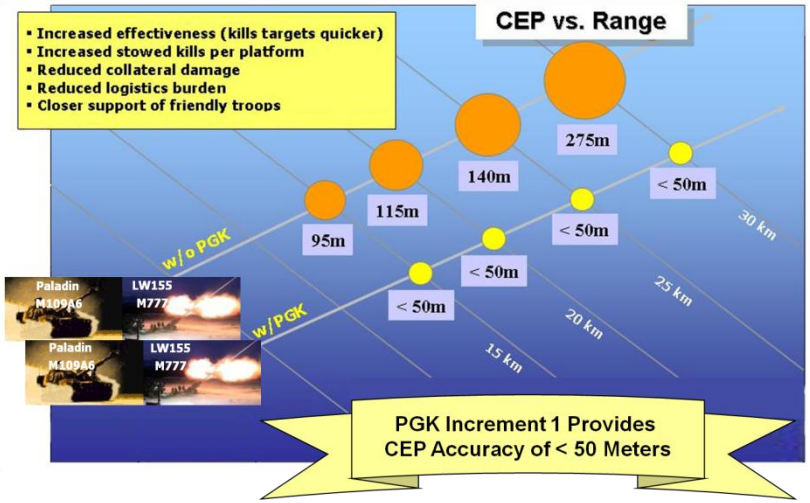
Reliability by IOC:
- 0.92 (T); 0.97 (O)

Accuracy:
- ≤50m CEP (T); ≤30m CEP (O)

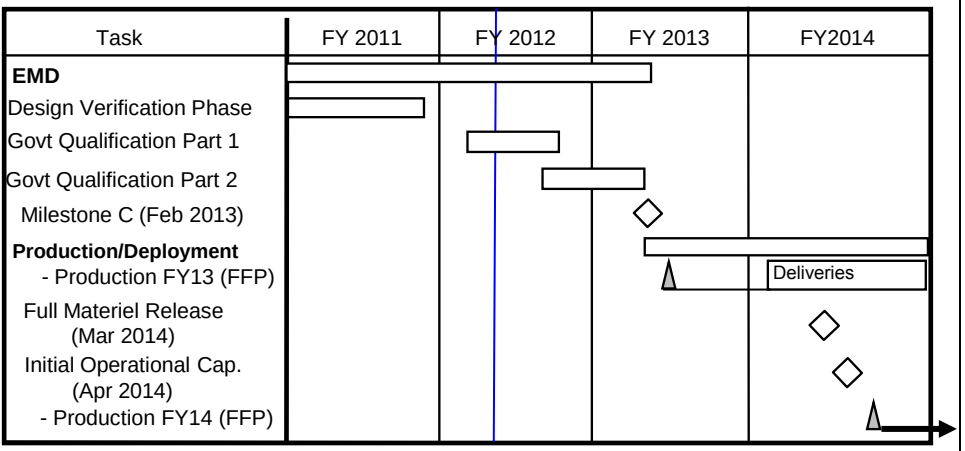
Attributes

Munition / Platform Types:
- 155mm High Explosive Projectiles: M795, M549/A1
- M109A6 (Paladin), M777A2 (LW155)

Description



Baseline Program Schedule:



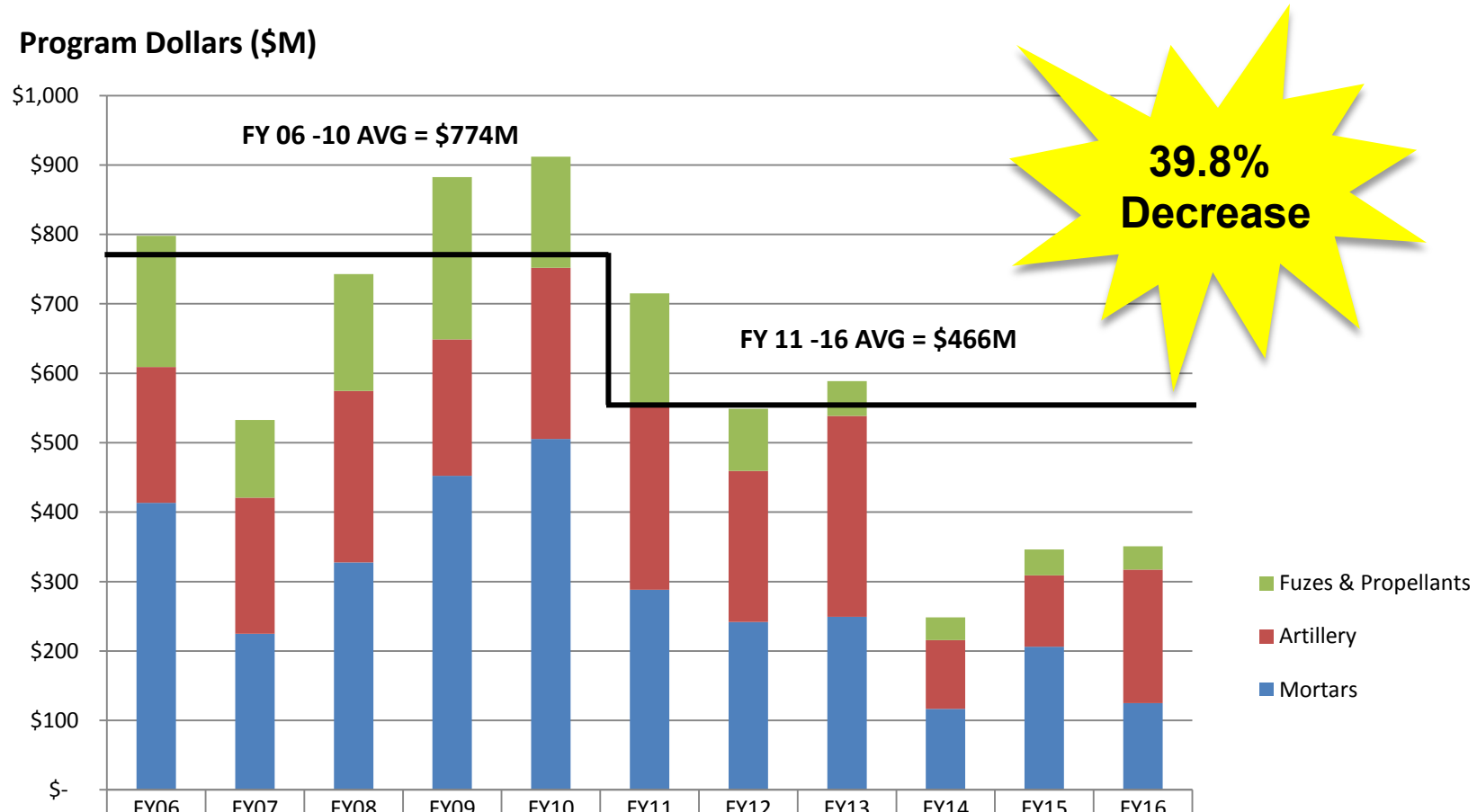
Issues/ Status:

- **PGK Exceeding Accuracy KPP Threshold of 50 meter CEP**
  - ✓ Recent testing indicates ability to exceed Objective at top zone / max ranges
- **PGK program re-baselined in response to reliability issues in Aug 2010**
- **Program now on track to meet 92% Reliability KPP by IOC (Based on Aug-Sep 2011 Reliability Test Results)**
- **Directed Requirement for UMR approved and Above Threshold Reprogramming (ATR) for resourcing in process**
  - ✓ Potential to field in Spring 2013 to OEF
- **Key Milestones**
  - ✓ UMR (given resourcing) 2QFY13
  - ✓ MS C: 2QFY13

FY12/13 Planned Acquisitions

Product	Projected Award Date	Dollar Amount	Contract Type
M935 HE Fuzes	3QFY12	$99M	NTIB, IDIQ
120mm M31 Fins	3QFY12	$62M	F&O, IDIQ
MACS LAP	4QFY12	$37.5M	NTIB,IDIQ
PA179 Metal Container, Excalibur 1b	4QFY12	$11.4M	SBSA, IDIQ
60mm PA191, 81mm PA157, 120mm PA154 Mortar Metal Containers	1QFY13	$19M	F&O, IDIQ
PGU-43B, PGU-44B, PGU-45B LAP	1QFY13	$47M	NTIB, IDIQ
120mm IIIum/IR Mortar Ctg Bodies M930/ M983	2QFY13	$52.1M	NTIB, IDIQ
120mm HE/FRP/Smoke Ctg Shell Bodies	2QFY13	$240M	NTIB, IDIQ
M734a1 Multi-Option Fuzes and M783 Point Detonating/ Delay Mortar Fuzes	3QFY13	$69M	NTIB, IDIQ
FMU 153/B Fuze for PGU 44/B	3QFY13	$20.5M	NTIB, IDIQ

Conventional Funding – Over Time



	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16
Fuzes & Propellants	$189	$112	$168	$234	$160	$162	$89	$50	$33	$37	$34
Artillery	$196	$196	$247	$196	$246	$265	$218	$289	$99	$103	$192
Mortars	$413	$225	$327	$452	$506	$288	$242	$249	$117	$206	$125

Industrial Base Challenges

Challenges	Activities
➢ Declining Budget vs. Industrial Base Sustainment ✓ Fuze ✓ Propellant/Energetics ✓ Metal Parts Forging	➢ Continue to Support PEO IB "Watch List" ➢ Identified Industrial Base Concern to G-8 ➢ Modification of IDIQ to 'single award' where appropriate ➢ Assessing Future Acquisition to Minimize impact
➢ Counterfeit Parts ✓ GPS receiver Module ✓ Samsung SDRAM	➢ Tightening Contract/Language to Verify Component OEM Authenticity
➢ International Competition ✓ Fewer World Market Opportunities ✓ Increasing CONUS Involvement by Foreign Based Companies	➢ Increased FMS Focus ➢ Leveraging Stockpile Surplus Where Possible ➢ Supporting CRADA Approach to Address DCS Opportunities